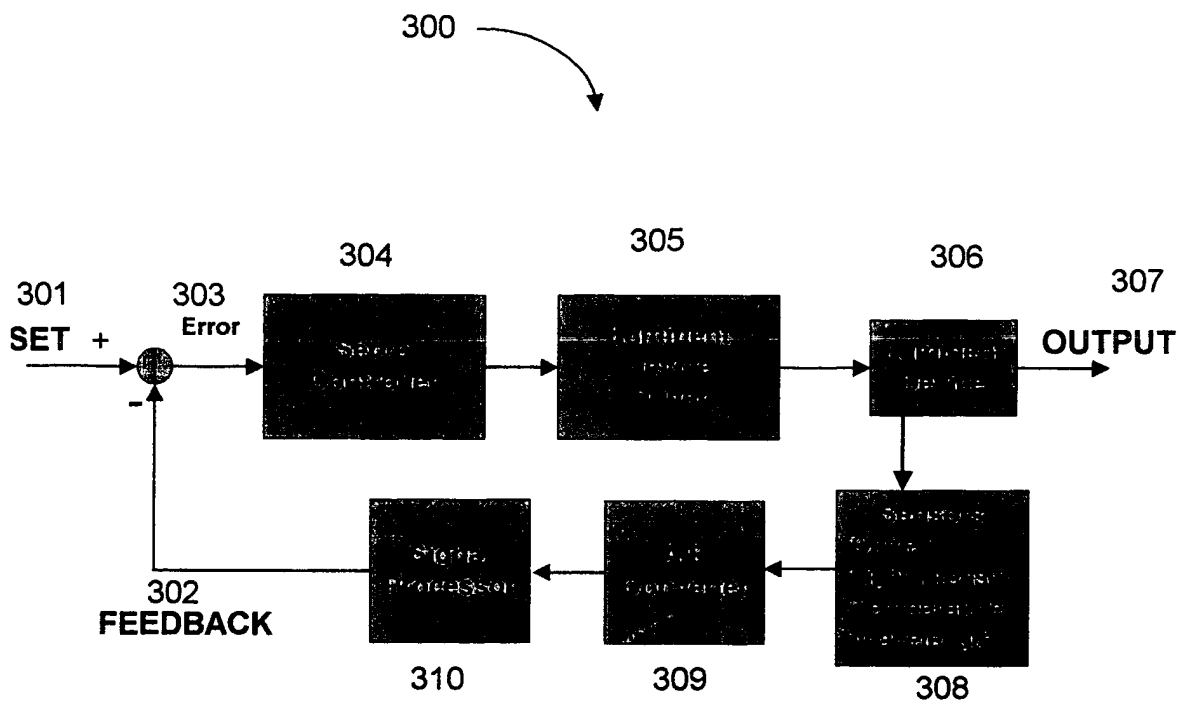


Figure 1. Configuration Method for a software enabled control system for luminant devices



**Figure 3. Servo Control for a Luminent Device**

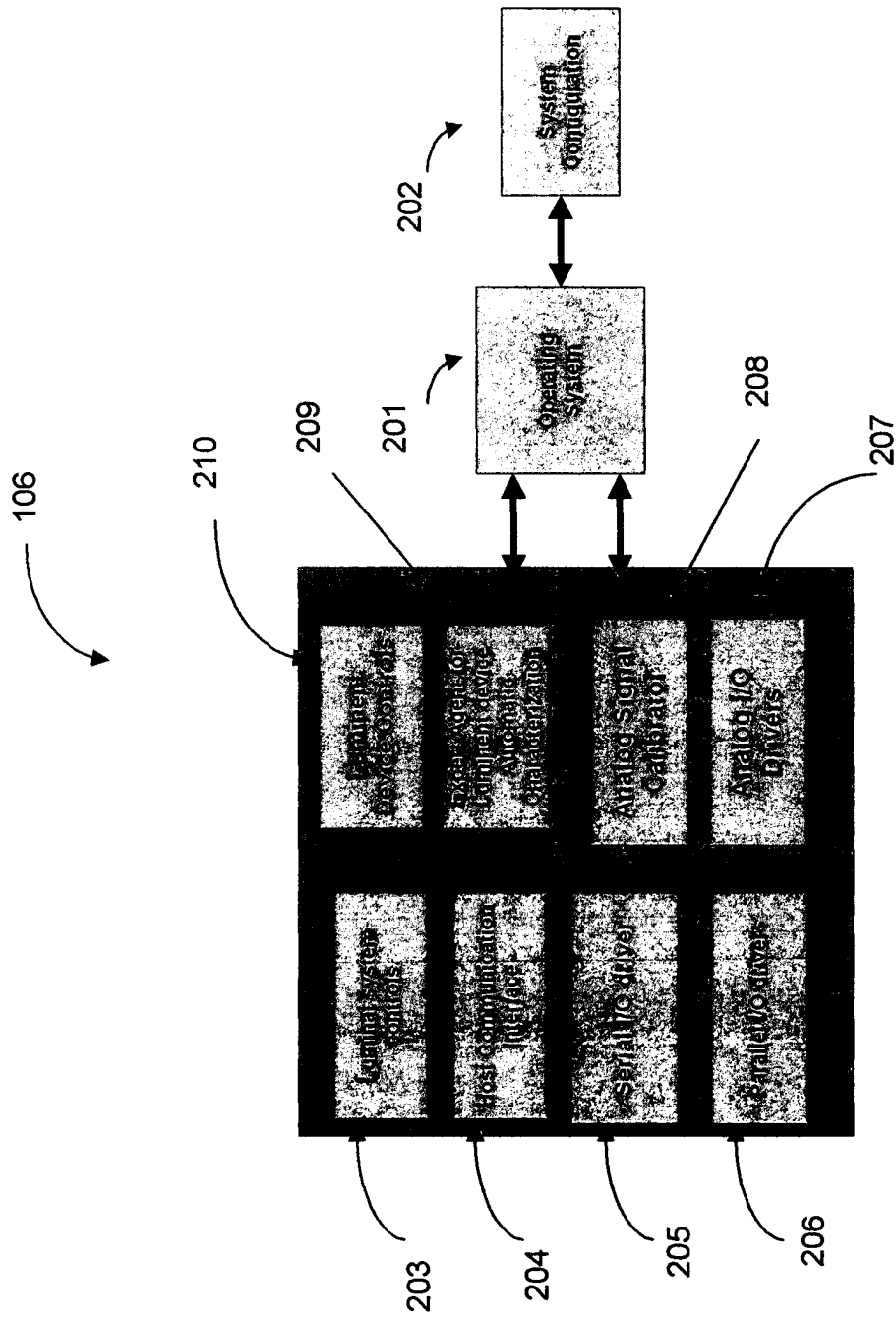


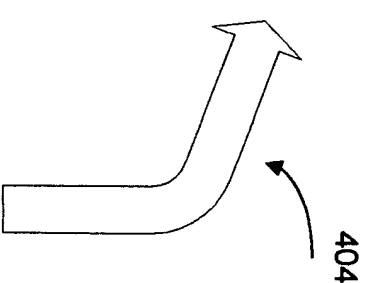
Figure 2. Software Enabled Control System for luminent devices

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### Configuration database

Configuration Parameter Name	Symbol	Value
Laser Servo Gain	GK	
Servo damping coefficient	ALPHA	
Measured feedback	MF	
Set point for extinction ratio	ER	
Overload detector setting	PLMAX	
Eye Safety Shutdown Setting	Safety	
Threshold detector result	lbth	
Temperature	Ts	
Flag for selection of Laser Control program	CM	
Scaling factors for drivers	SM, SL, SB	
Analog input 1 sensor offset	Y-int1	
Analog input 1 sensor gain	m1	
Temperature coefficient for slope efficiency model	TCOSL	
Exponential for threshold equation	E1	
Flag to select type of temperature compensation	F1	
TEC control set point	SPTec	
Wavelength set point	L1	
System resolution	Bits	
Reference voltage	Vref	
Receiver gain setting	RG	

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Host Computer  
data

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Figure 4. Configuration Database

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